

- [54] KEYBOARD ACTUABLE WITH THE AID OF THE FINGERS OF AT LEAST ONE HAND**

- [76] Inventor: **Walter Zapp**, Ebenau 877, CH-9413 Oberegg, Switzerland

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- [58] **Field of Search** ..... 197/98, 101, 19;  
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- ## [56] References Cited

## U.S. PATENT DOCUMENTS

654,605	7/1900	Chalmers .....	197/101
3,705,424	12/1972	Harvey .....	197/98 X
3,805,939	4/1974	Ross .....	197/19
3,831,730	8/1974	Koepe .....	197/98
3,938,642	2/1976	Van Rumpt et al. ....	197/98

## FOREIGN PATENT DOCUMENTS

2,218,065	4/1972	Germany .....	197/98
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## OTHER PUBLICATIONS

**"Digital X Typewriter Keyboard," Conway, IBM**

Tech. Disc. Bull., vol. 18, No. 12, May 1976, pp. 4187-4190.

"Input Keyboard", Stuckert, IBM Tech. Discl. Bull, vol. 14, No.3, Aug. 1971, pp. 952-959.

"Semi Captive Keyboard," Kowalski, vol. 1, No. 2, Feb. 1976, p. 85 Xerox Disc. Journ.

*Primary Examiner*—Ralph T. Rader

*Attorney, Agent, or Firm*—Gilbert L. Wells; Heinrich W. Herzfeld

[57]

## ABSTRACT

A keyboard, actuatable with the aid of fingers of at least one hand is described which keyboard includes a support frame, a normal row of keys therein, each of which can be moved out of an initial position of the fingers by the tips of the index finger, middle finger, ring finger and little finger, respectively, which keyboard has a hand rest for the ball of the thumb or wrist of the hand, the fingers of which are operative, on which hand rest this hand can be continuously supported in a rest position during actuation of the keyboard, and wherein the keys of the normal row are arranged on a curve for the fingers of each hand, which curve corresponds to the natural disposition of the finger-tips when the fingers are, without being tensioned, in a slightly curved, spread, but unstretched position. Each key has an unactuated rest position in which the tip of the finger associated therewith is able to rest thereon.

**12 Claims, 22 Drawing Figures**

